BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Certificate in Information Technology Pearson BTEC International Level 3 Subsidiary Diploma in Information Technology Pearson BTEC International Level 3 Foundation Diploma in Information Technology Pearson BTEC International Level 3 Diploma in Information Technology Pearson BTEC International Level 3 Extended Diploma in Information Technology
Unit number and title	**Unit 24: Technical Fundamentals for Computing Professionals**
Learning aim(s)	Learning aim C: Design a computer infrastructure solution
Assignment title	Design an infrastructure solution
Assessor	
Issue date	
Hand in deadline	

Vocational scenario or context	Your manager has reviewed the report you produced (Assignment 2) and has asked you to work on designing an infrastructure solution for the Derny-Designs Group Ltd project. Your manager has provided you with information to consider when producing your design (see information booklet).
Task 1a	Produce a plan for a computer infrastructure solution for Derny-Designs Group Ltd. The computer infrastructure solution must: • be appropriate for installation in its new premises • meet the key organisational requirements • support staff in completion of their roles • meet the needs of the business. Your plan should include: • the design aims and requirements for the network • network physical design schemes: o selection of a flat design and hierarchical designs (as appropriate to the identified requirements) o network diagrams and physical layout o LAN/WAN equipment requirements, e.g. server, switch, router o network client device requirements, e.g. devices to be used, peripherals

	• logical network design • detailed specifications of devices to be used by staff in different roles (e.g. computer architecture, memory and storage, connection methods) • details of any relevant legislative requirements for ensuring the security and privacy of data in relation to the network, connected devices and users.
Task 1b	Review your proposed infrastructure design with at least two other people. Keep a record of the feedback you receive and use this feedback to refine your design so that it better meets the needs of Derny-Designs Group Ltd.
Task 1c	Write a justification of the design decisions you have made, showing how they have helped ensure the planned infrastructure solution will meet the requirements identified in the scenario. Write an evaluation of the design process considering the effectiveness of the proposed infrastructure solution in comparison to alternatives, the reasons why your solution was chosen and the extent to which it meets the requirements in the scenario. Your evaluation needs to be supported by evidence from your work and reach supported conclusions.
Checklist of evidence required	• Design documents for an infrastructure solution • Feedback on the documentation/designs collected from others • Improved version of the documentation/design • Written justification of design decisions • Evaluation of the designs

Criteria covered by this task:	
Criteria reference	To achieve the criteria you must show that you are able to:
C.D3	Evaluate the refined computer infrastructure design documents against the client requirements
C.M3	Refine the computer infrastructure design in response to feedback justifying any changes made
C.P4	Design a computer infrastructure solution to meet an organisation's needs.
C.P5	Review the infrastructure solution design with others to identify potential improvements.

Sources of information to support you with this assignment	
Other assessment materials attached to this assignment brief	Assignment 2 and 3 Information Booklet.doc